

FIGURE 1

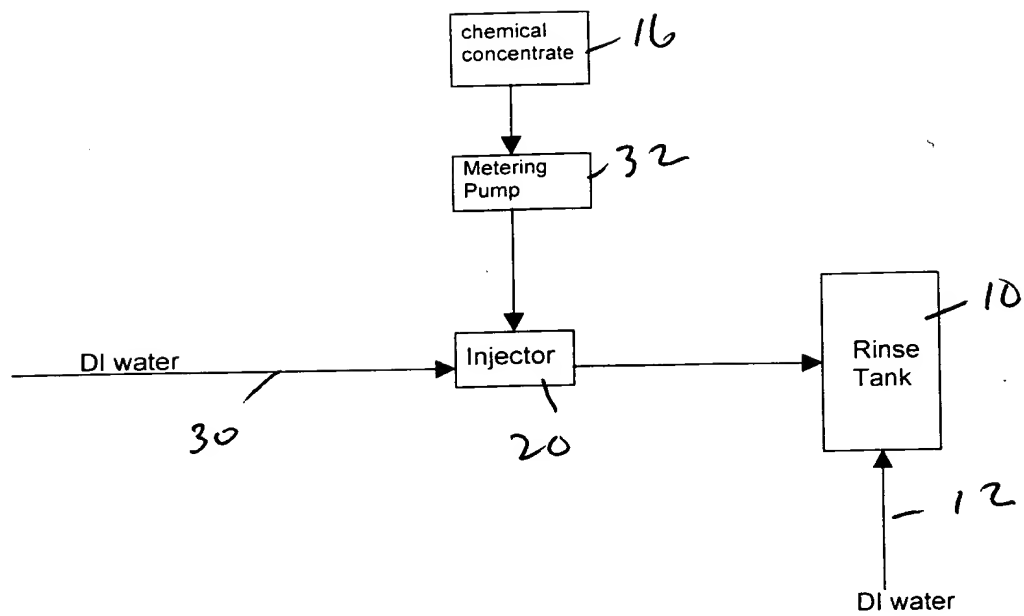


FIGURE 2

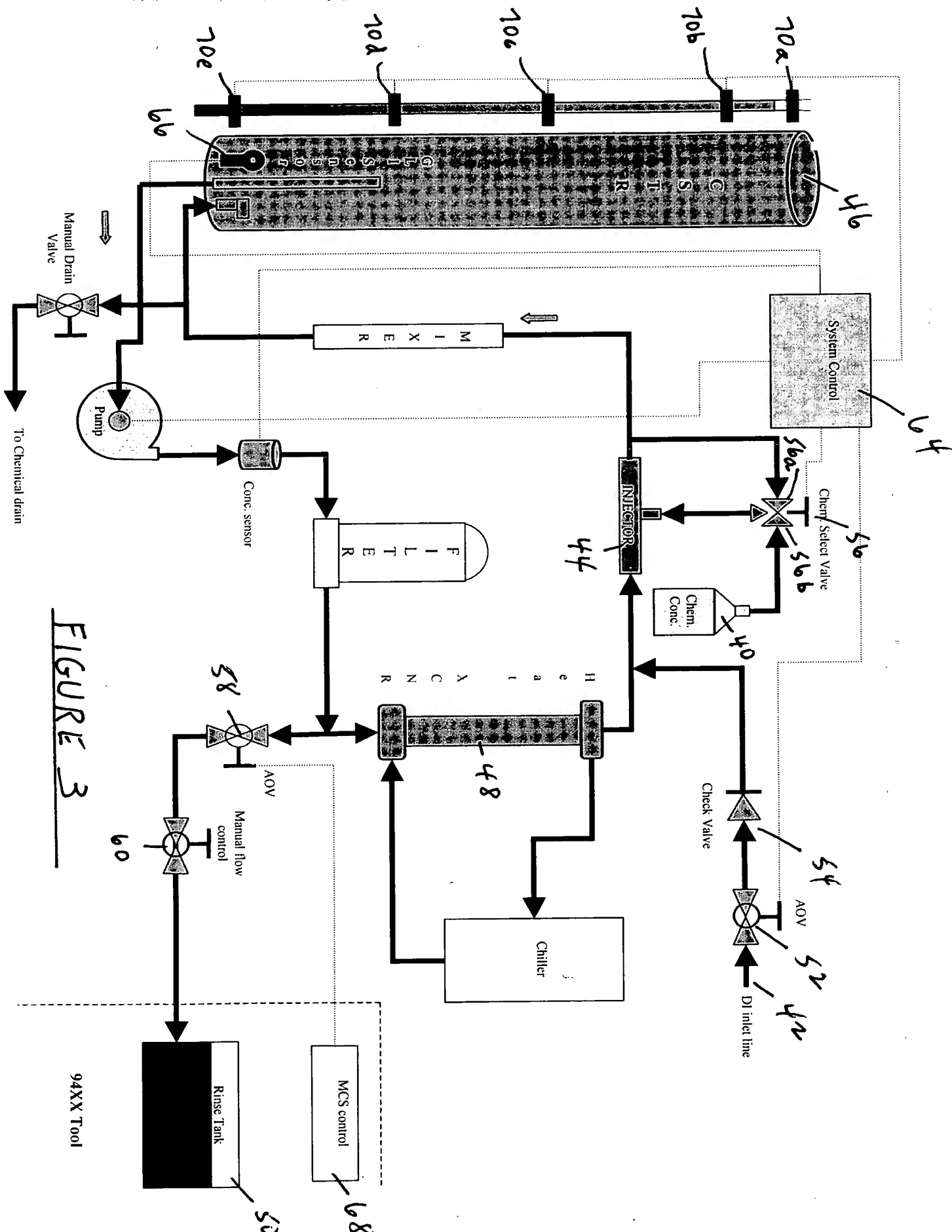


FIGURE 3

Controlled Rinses



FIGURE 4

Measured Corrosion Rates for Blk TiN with ACT-937 Carryover in Controlled Rinses

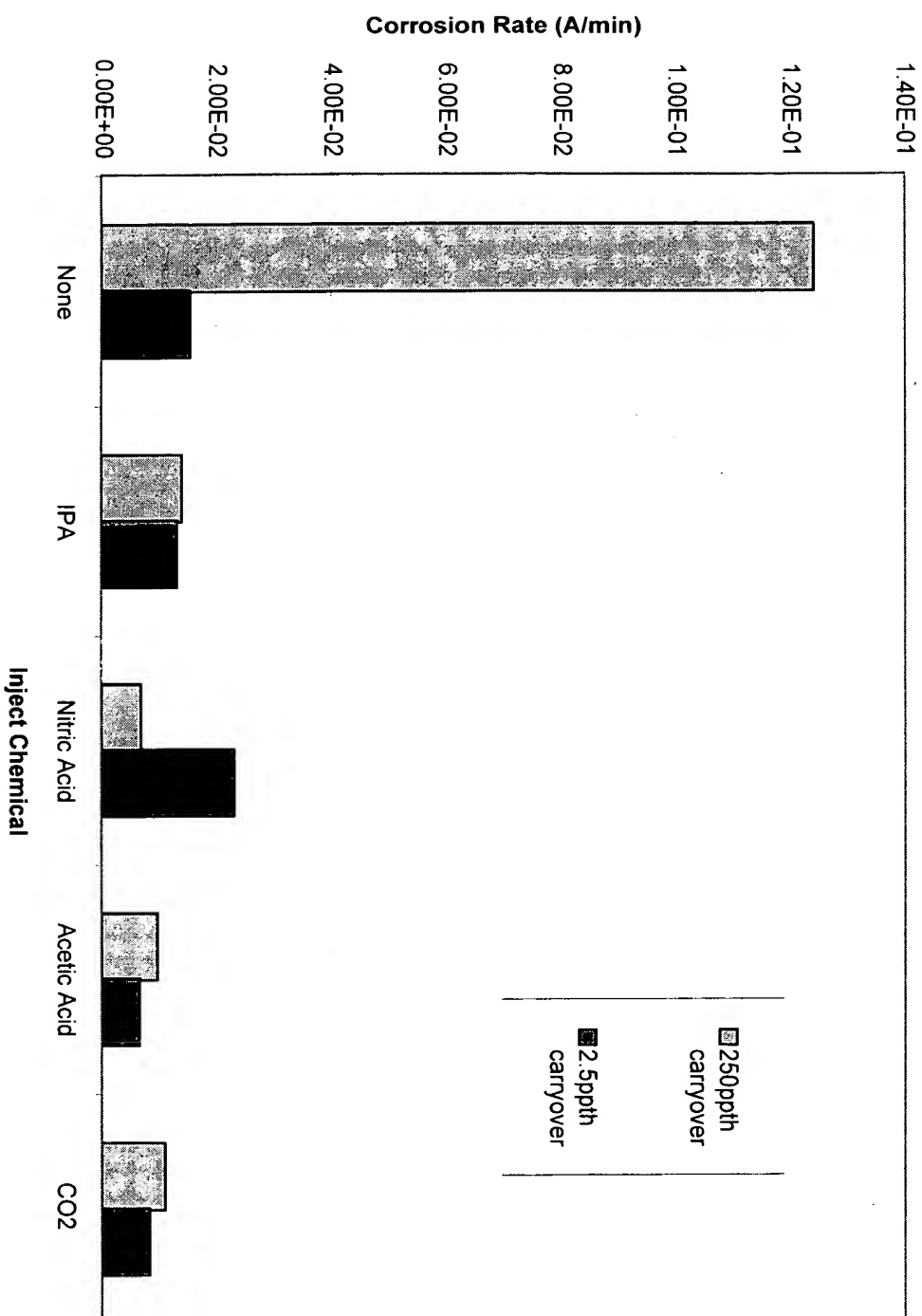


FIGURE 5

Measured Corrosion Rates for Blk Cu Films with ACT-970 Carryover in Controlled Rinses

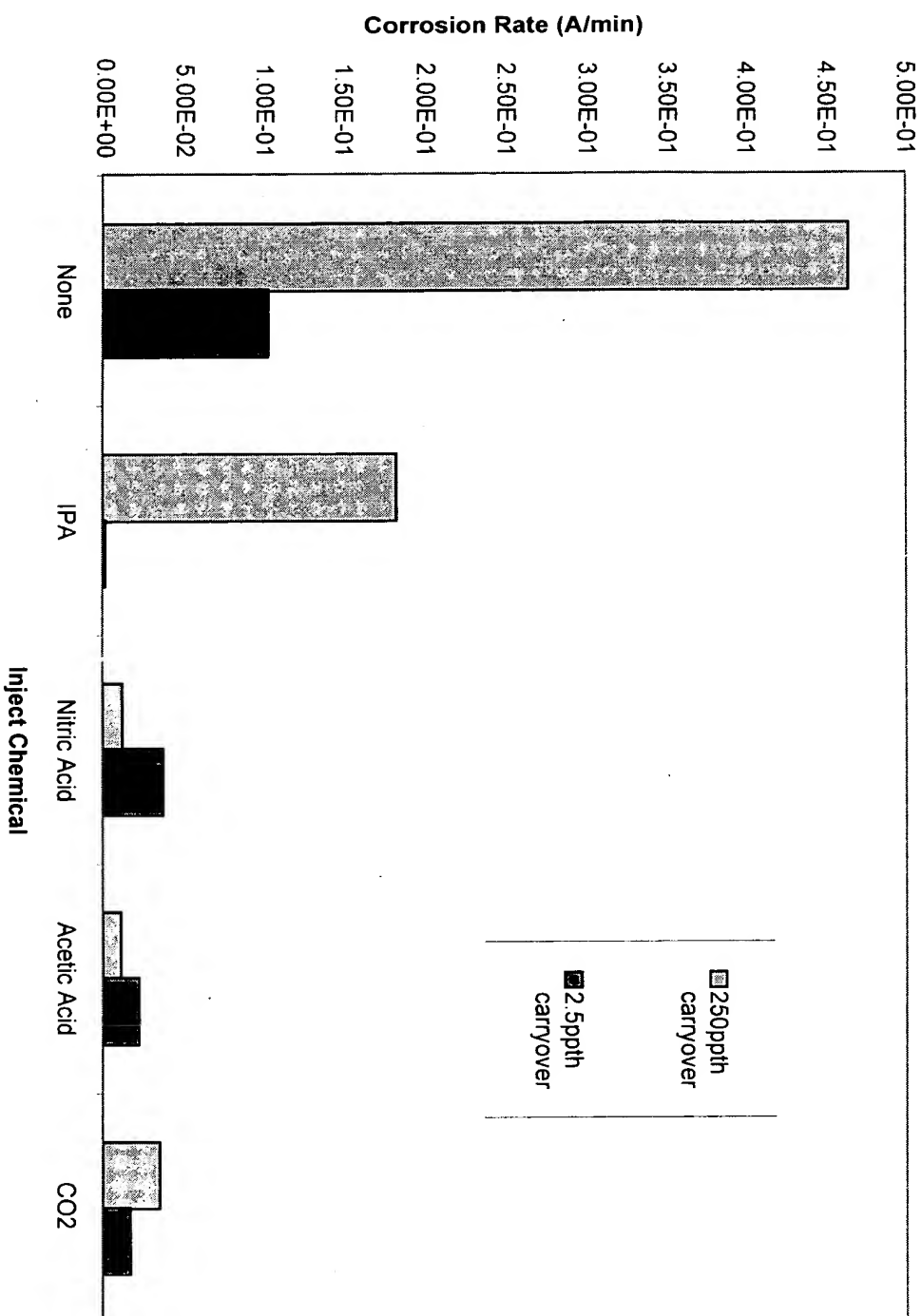
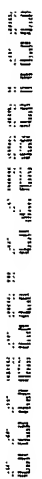


FIGURE 6

Note: Initial Concentration of HNO_3 was 70wt%, tank concentrations were calculated using acid/base titrations



Al Corrosion in Post-ACT 937 Rinse Showing Effect of Rinse Treatment [Film Loss as Measured by 4-Point Probe]

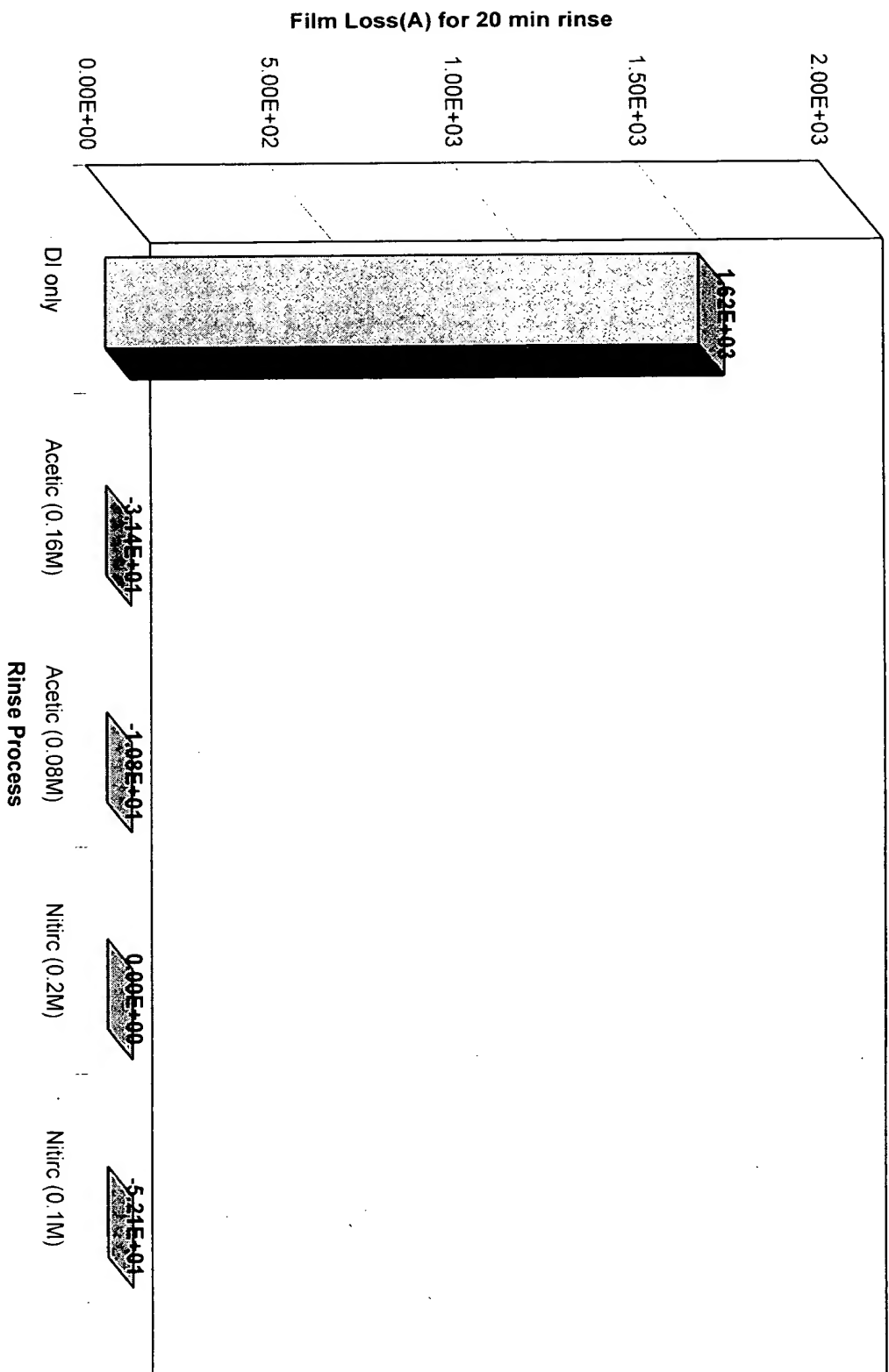


FIGURE 8

Electrical Device Characterization (Serpentine Sheet Resistances for Different Rinse Conditions) 96567

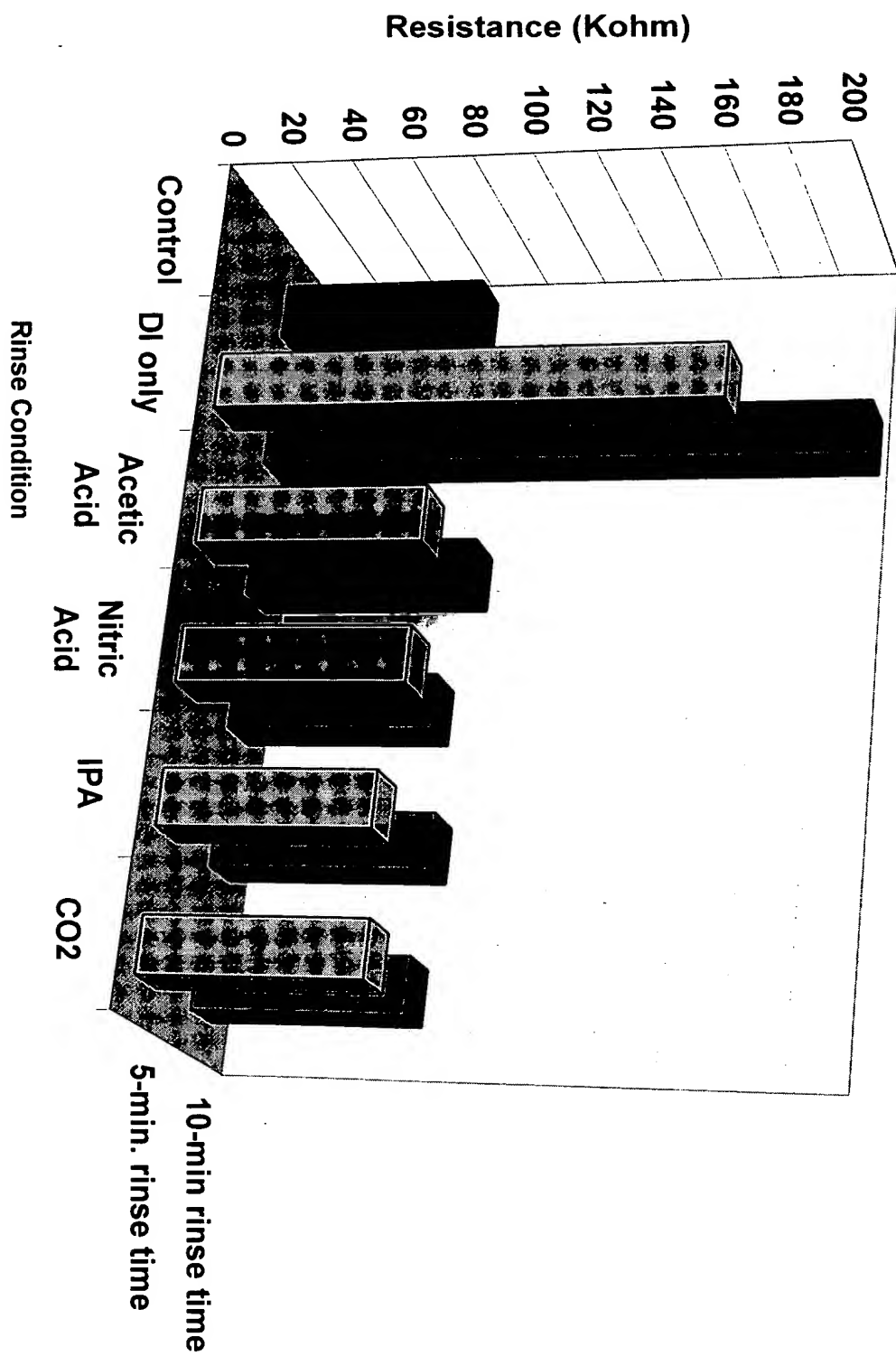
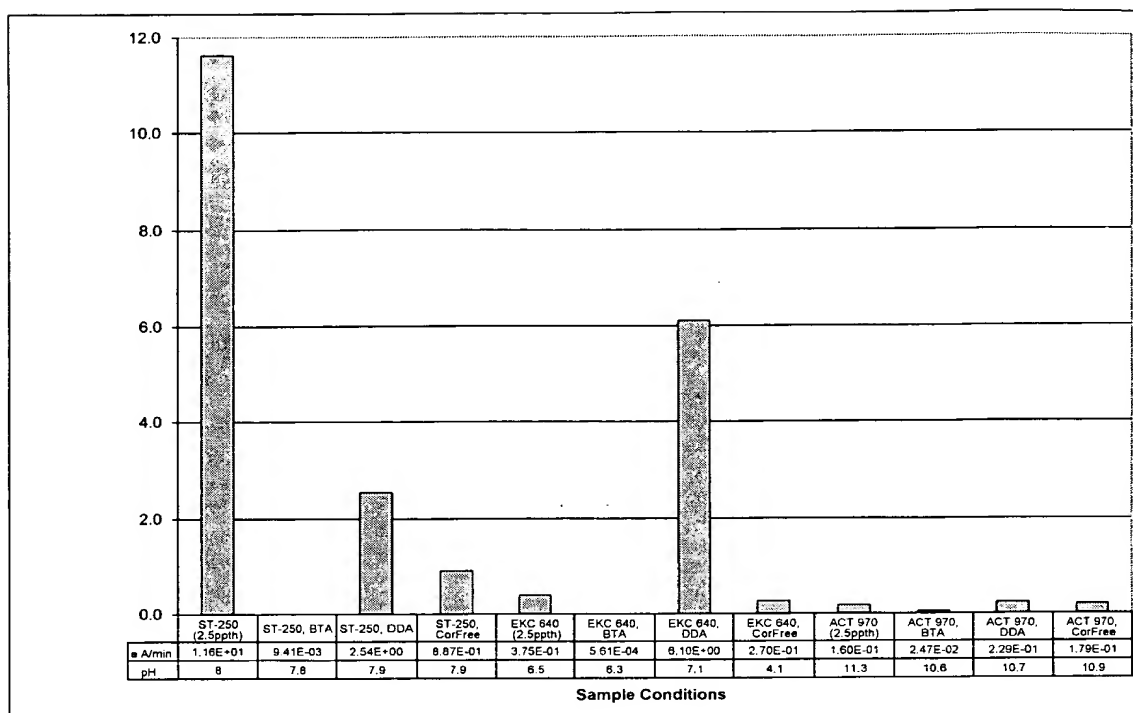


FIGURE 9



BTA = benzotriazole

DDA = dodecanedioic acid

CorFree® = DuPont proprietary product containing a mixture of undecanedioic, dodecanedioic and sebacid acids

FIGURE 10

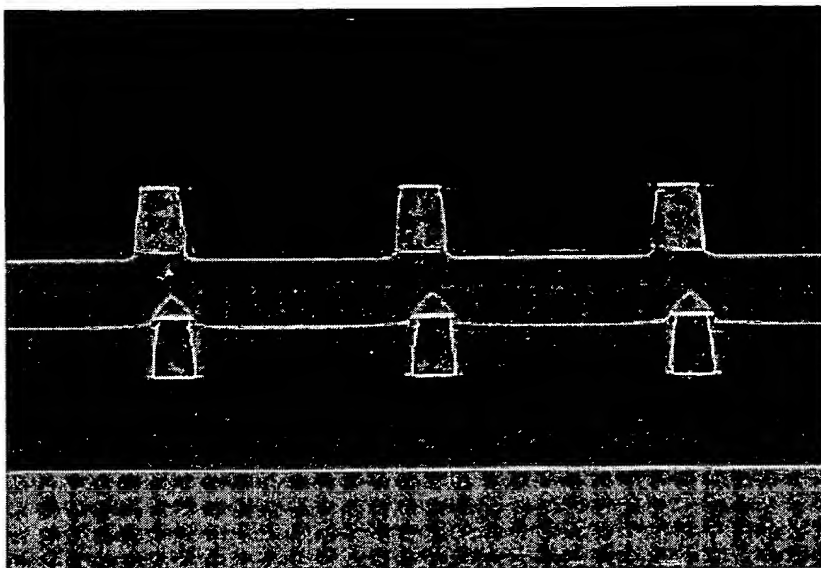


FIGURE 16

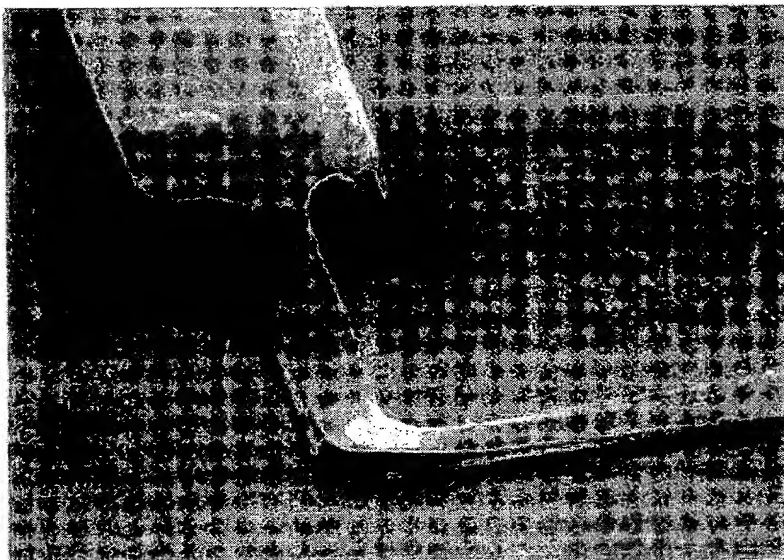


FIGURE 11

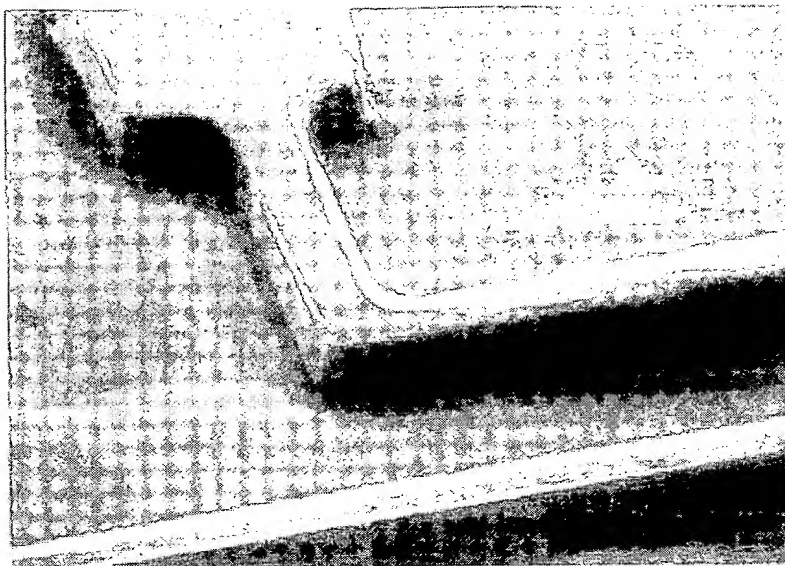


FIGURE 12

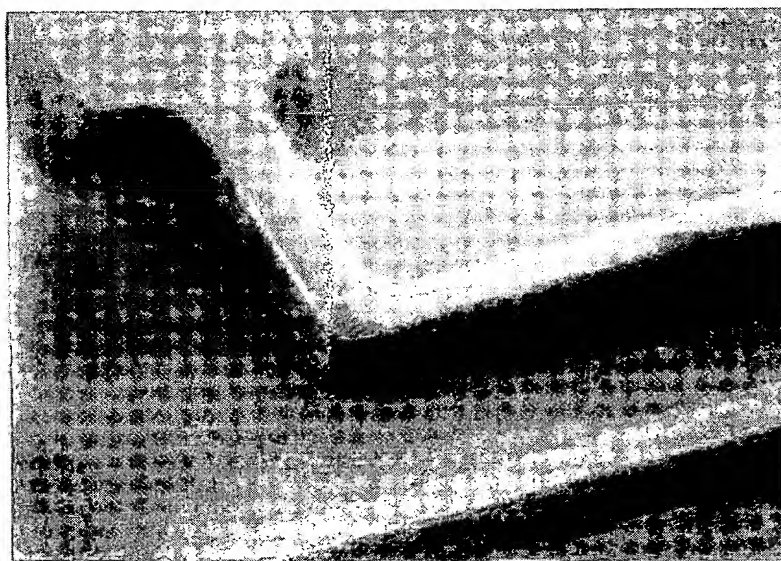


FIGURE 13

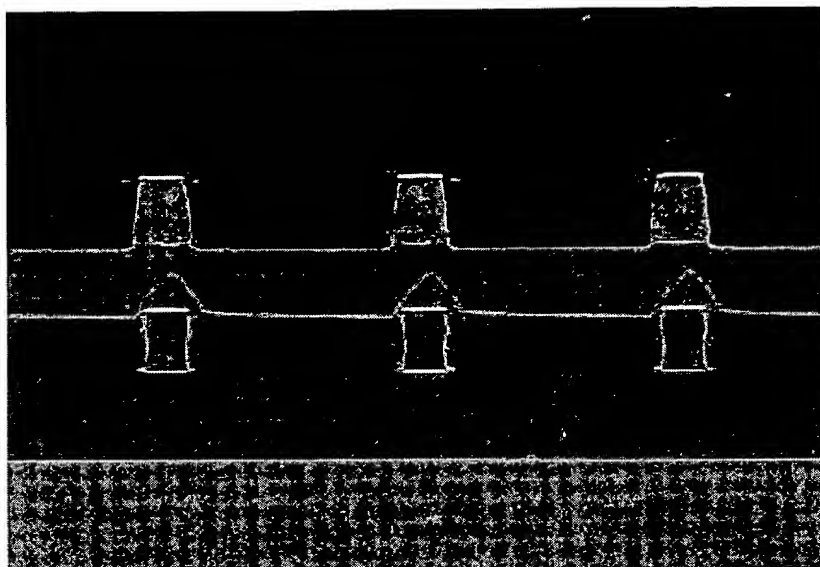


FIGURE 14

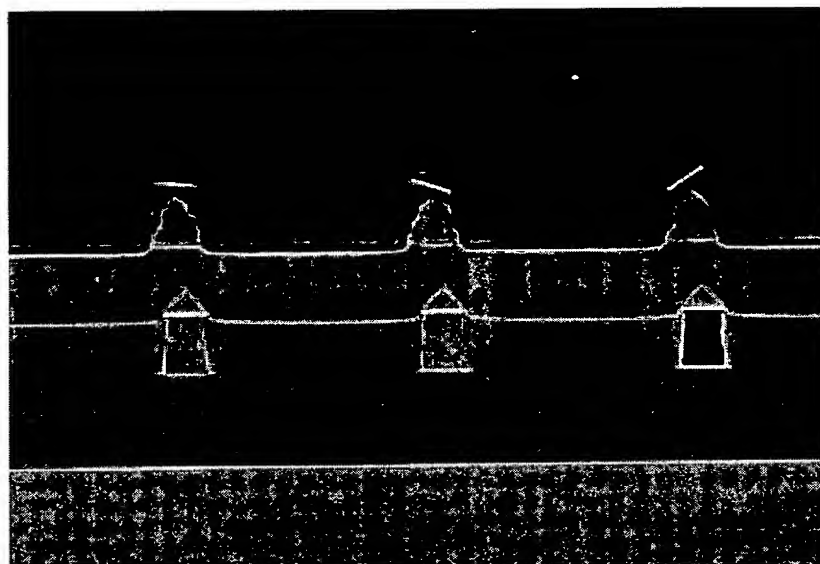


FIGURE 15